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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/618,018	07/14/2003	Satoshi Fujimine	240084US0	4020
22850	7590	10/18/2004	EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C.			ZIMMERMAN, GLENN	
1940 DUKE STREET			ART UNIT	
ALEXANDRIA, VA 22314			PAPER NUMBER	
			2879	

DATE MAILED: 10/18/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/618,018	Applicant(s) FUJIMINE ET AL.	
	Examiner Glenn Zimmerman	Art Unit 2879	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on August 25, 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date <u>10/14/03</u> . | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Election/Restrictions

The examiner acknowledges the response to the restriction requirement of 8/16/2004; however, the examiner has withdrawn the restriction requirement of August 16, 2004, and will examine claims 1-8.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 3 and 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Axtell, III et al. U.S. Patent 6,238,847.

Regarding claim 1, Axtell, III et al. discloses a glass for covering electrodes, which consists essentially of, as represented by mass percentage based on the following oxides, from 35 to 55% of PbO, from 15 to 30% of B₂O₃, from 4 to 15% of SiO₂, from 20 to 44% of B₂O₃+ SiO₂, from 0.5 to 10% of TiO₂+ZrO₂+La₂O₃+Ta₂O₅, from 0 to 15% of Al₂O₃, from 0 to 25% of BaO, from 0 to 1% of CuO and from 0 to 1% of

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CeO₂. (col. 3 lines 63-67 and col. 4 lines 1-2; one must choose the correct percentages)

Regarding claim 3, Axtell, III et al. discloses the glass for covering electrodes according to claim 1, wherein CuO is contained, and the content of TiO₂ is from 0 to 4.5%. (col. 3 lines 63-67 and col. 4 lines 1-2; one must choose the correct percentages).

Regarding claim 5, Axtell, III et al. discloses a colored powder for covering electrodes, which comprises a powder of the glass for covering electrodes as defined in claim 1 and a pigment (col. 4 lines 25-30).

Claims 1, 2 and 4 are rejected under 35 U.S.C. 102(e) as being anticipated by Hwang U.S. Patent Application publication 2001/0024582.

Regarding claim 1, Hwang discloses a glass for covering electrodes, which consists essentially of, as represented by mass percentage based on the following oxides, from 35 to 55% of PbO, from 15 to 30% of B₂O₃, from 4 to 15% of SiO₂, from 20 to 44% of B₂O₃+ SiO₂, from 0.5 to 10% of TiO₂+ZrO₂+La₂O₃+Ta₂O₅, from 0 to 15% of Al₂O₃, from 0 to 25% of BaO, from 0 to 1% of CuO and from 0 to 1% of CeO₂. (see Table 4).

Regarding claim 2, Hwang discloses the glass for covering electrodes according to claim 1, wherein the content of Al₂O₃ is from 1 to 10%, and the content of BaO is from 12 to 20%. (Table 5)

Regarding claim 4, Hwang discloses the glass for covering electrodes according to claim 1, which has a softening point of from 520 to 650°C (paragraph 77; claim 30 or 50).

Claims 1 and 5-8 are rejected under 35 U.S.C. 102(b) as being anticipated by Tanaka et al. U.S. Patent 6,160,345.

Regarding claim 1, Tanaka et al. disclose a glass for covering electrodes, which consists essentially of, as represented by mass percentage based on the following oxides, from 35 to 55% of PbO, from 15 to 30% of B₂O₃, from 4 to 15% of SiO₂, from 20 to 44% of B₂O₃+ SiO₂, from 0.5 to 10% of TiO₂+ZrO₂+La₂O₃+Ta₂O₅, from 0 to 15% of Al₂O₃, from 0 to 25% of BaO, from 0 to 1% of CuO and from 0 to 1% of CeO₂. (see Table 1b row example number 15).

Regarding claim 5, Tanaka et al. disclose a colored powder for covering electrodes, which comprises a powder of the glass for covering electrodes as defined in claim 1 and a pigment (Calcium oxide; col. 6 line 65).

Regarding claim 6, Tanaka et al. disclose a process for producing a plasma display device wherein covering of transparent electrodes formed on a glass substrate constituting a front substrate, is carried out by coating and firing a powder of the glass for covering electrodes as defined in claim 1, to cover the electrodes (col. 7 lines 8-12).

Regarding claim 7, Tanaka et al. disclose a process for producing a plasma display device, wherein covering of transparent electrodes formed on a glass substrate constituting a front substrate, is carried out by coating and firing the colored powder for covering electrodes as defined in claim 5, to cover the electrodes (col. 7 lines 8-12).

Regarding claim 8, Tanaka et al. discloses a plasma display device (Fig. 1, 3) comprising a glass substrate constituting a front substrate and transparent electrodes formed on the glass substrate, wherein the transparent electrodes are covered by the glass for covering electrodes as define in claim 1. (example 15 Table 1.b)

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Ichakawa et al. U.S. Patent Application Publication 2002/0096666 A1 discloses Alkali Development Type Photocurable Composition and Calcined Pattern Obtained by Use of the Same (claim 4). Fukushima et al. U.S. Patent 6,555,594 B1 discloses a Photo-Curable Electrically Conductive Composition and Plasma Display Panel Having Electrodes Formed by Use of the Same (col. 14 lines 34-40).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Glenn Zimmerman whose telephone number is (571) 272-2466. The examiner can normally be reached on M-W 8-5.


If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh D Patel can be reached on (571) 272-2457. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Glenn Zimmerman



Vip Patel
Primary Examiner
AU 2879